

SEQUENCE LISTING

5 <110> Nycomed Imaging AS

<120> Improvements in or relating to diagnostic/therapeutic
agents

10 <130> REF/Klaveness/993

<140> US 08/958,993

<141> 1997-10-28

15 <160> 25

<170> PatentIn Ver. 2.1

<210> 1

20 <211> 4

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Sequence:RGDC-Mal-PEG3400-DSPE

<400> 1

Arg Gly Asp Cys

30 1

<210> 2

<211> 25

35 <212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Peptide
comprising phosphatidylserine-binding and
heparin-binding sections

5

<400> 2

Phe Asn Phe Arg Leu Lys Ala Gly Gln Lys Ile Arg Phe Gly Ala Ala

1

5

10

15

10 Ala Trp Glu Pro Pro Arg Ala Arg Ile

20

25

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15 <211> 8

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20 <223> Description of Artificial Sequence:Heparin-binding
peptide

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Trp Glu Pro Pro Arg Ala Arg Ile

25 1

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<210> 4

<211> 6

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<223> Description of Artificial Sequence:Linker sequence

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<222> (1)

<223> MTX-phenylalanine

<400> 4

5 Phe Lys Leu Arg Leu Cys

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<220>

15 <223> Description of Artificial Sequence:Heparin sulphate binding peptide

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20 Lys Arg Lys Arg

1

<210> 6

<211> 8

25 <212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Fibronectin

30 peptide

<400> 6

Trp Gln Pro Pro Arg Ala Arg Ile

1 5

35

<210> 7

<211> 13
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5 <220>
 <223> Description of Artificial Sequence:Lipopeptide
 consisting of a heparin sulphate binding peptide
 and a fibronectin peptide

10 <220>
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 <222> (1)
 <223> Dipalmitoyl-lysine

15 <400> 7
 Lys Lys Arg Lys Arg Trp Gln Pro Pro Arg Ala Arg Ile
 1 5 10

20 <210> 8
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25 <220>
 <223> Description of Artificial Sequence:Fibronectin
 peptide sequence

 <400> 8
30 Phe Asn Phe Arg Leu Lys Ala Gly Gln Lys Ile Arg Phe Gly Gly
 1 5 10 15

 Gly Trp Gln Pro Pro Arg Ala Ile
 20

35 <210> 9

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<211> 6
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<213> Artificial Sequence

5 <220>
<223> Description of Artificial Sequence:Biotinylated
endothelin-1 peptide

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<400> 9
15 Trp Leu Asp Ile Ile Trp
1 5

<210> 10
20 <211> 10
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25 <223> Description of Artificial Sequence:Biotinylated
fibrin-anti-polymerant peptide

<220>
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30 <222> (1)
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<220>
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35 <222> (10)
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Gly Pro Arg Pro Pro Glu Arg His Gln Ser
1 5 10

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<210> 11
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<220>
<223> Description of Artificial Sequence:Lipopeptide
containing RGD sequence and fluorescein reporter
group

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<223> Dipalmitoyl-Lys

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<222> (4)
<223> Acetyl-RGD-K-fluorescein side chain

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Lys Lys Lys Lys Gly
1 5

30

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cell binding lipopeptide

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5 <222> (1)
<223> 2-n-hexadecylstearyl-Lys

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<221> MOD_RES
10 <222> (18)
<223> AMIDATION

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Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Leu Lys
15 1 5 10 15

Leu Ala

20
<210> 13
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functionalised with captopril

30 <220>
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<223> Dipalmitoyl-Lys

35 <220>
<221> MOD_RES
<222> (4)

<223> Amide linked via side chain to captopril

<220>

5 <221> MOD_RES

<222> (4)

<223> AMIDATION

<400> 13

Lys Lys Lys Lys

10 1

15 <210> 14

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Lipopeptide

20 with an affinity for endothelial cells

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<222> (1)

25 <223> Dipalmitoyl-Lys

<220>

<221> MOD_RES

<222> (4)

30 <223> Acp

<220>

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35 <223> AMIDATION

<400> 14

Lys Lys Lys Xaa Ile Arg Arg Val Ala Arg Pro Pro Leu
1 5 10

5 <210> 15
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10 <220>
<223> Description of Artificial Sequence:Lipopeptide
comprising an interleukin-1 receptor binding
peptide

15 <220>
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Lys Gly Asp Trp Asp Gln Phe Gly Leu Trp Arg Gly Ala Ala
1 5 10

25 <210> 16
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30 <220>
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35 <220>
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<223> RGDS chain linked via NH2 group of lysine

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<223> Description of Artificial Sequence:Branched core
5 peptide comprising a dabsylated atherosclerotic
plaque-binding sequence and RGDS

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Tyr Arg Ala Leu Val Asp Thr Leu Lys Lys Gly Cys

10 1 5 10

<210> 17

<211> 25

15 <212> DNA

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<223> Description of Artificial Sequence:Synthetic
20 oligonucleotide

<220>

<221> misc_feature

<222> (1)

25 <223> Biotinylated

<400> 17

gaaaaggtagt ggggtcgtgt gccgg

25

30

<210> 18

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<220>

<223> Description of Artificial Sequence:Lipopeptide

with affinity for thrombi

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 <223> Dipalmitoyl-Lys

10 <220>
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15 <400> 18
 Lys Asn Asp Gly Asp Phe Glu Glu Ile Pro Glu Glu Tyr Leu Gln
 1 5 10 15

20 <210> 19
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25 <220>
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35 <220>
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 <400> 19
 Lys Trp Lys Lys Lys Gly

1 5

5 <210> 20
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10 <220>
<223> Description of Artificial
Sequence:Thiol-functionalised lipid molecule

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20 <220>
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25 <400> 20
Lys Lys Lys Xaa Cys
1 5

30 <210> 21
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35 <220>
<223> Description of Artificial Sequence:Lipopeptide
functionalised with atenolol

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<220>
<221> MOD_RES
<222> (1)
<223> Dipalmitoyl-Lys
5
<220>
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<223> Lysine with side chain linked via amide bond to
10 atenolol

<220>
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<400> 21
Lys Lys Lys Lys
1
20

<210> 22
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25 <213> Artificial Sequence

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containing folic acid
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folic acid

10 <400> 22
Lys Lys Lys Lys
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15 <210> 23
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containing a derivative of bestatin

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30 <221> MOD_RES
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35 <221> MOD_RES
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<223> Lysine with side chain linked via amide bond to

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derivative of bestatin

<400> 23

Lys Lys Lys Lys

5 1

<210> 24

<211> 4

10 <212> PRT

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<223> Description of Artificial Sequence:Lipopeptide
15 containing chlorambucil

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<221> MOD_RES

<222> (1)

20 <223> Dipalmitoyl-Lys

<220>

<221> MOD_RES

<222> (4)

25 <223> AMIDATION

<220>

<221> MOD_RES

<222> (4)

30 <223> Lysine with side chain linked via amide bond to
chlorambucil

<400> 24

Lys Lys Lys Lys

35 1

<210> 25
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functionalised with sulfisoxazole

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15 <220>
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<222> (4)
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20 <220>
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<223> Lysine with side chain linked via amide bond to
sulfisoxazole
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<400> 25
Lys Lys Lys Lys
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30 <210> 26
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35 <220>
<223> Description of Artificial Sequence:Atherosclerotic
plaque-binding peptide

<400> 26

Tyr Arg Ala Leu Val Asp Thr Leu Lys

1

5

5

<210> 27

<211> 16

<212> PRT

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<220>

<223> Description of Artificial Sequence:Atherosclerotic
plaque-binding peptide

15

<400> 27

Tyr Ala Lys Phe Arg Glu Thr Leu Glu Asp Thr Arg Asp Arg Met Tyr

1

5

10

15

20

<210> 28

<211> 17

<212> PRT

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<220>

<223> Description of Artificial Sequence:Atherosclerotic
plaque-binding peptide

<400> 28

Arg Ala Leu Val Asp Thr Glu Phe Lys Val Lys Gln Glu Ala Gly Ala

1

5

10

15

Lys

35

<210> 29

<211> 14
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5 <220>
<223> Description of Artificial Sequence:Thrombus
binding peptide

<400> 29

10 Asn Asp Gly Asp Phe Glu Glu Ile Pro Glu Glu Tyr Leu Gln
1 5 10

<210> 30
15 <211> 4
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<220>
20 <223> Description of Artificial Sequence:Thrombus
binding peptide

<400> 30
Gly Pro Arg Gly
25 1

<210> 31
<211> 13
30 <212> PRT
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<220>
<223> Description of Artificial Sequence:Platelet
35 binding peptide

<400> 31

Pro Leu Tyr Lys Lys Ile Ile Lys Lys Leu Leu Glu Ser

1

5

10

10

15